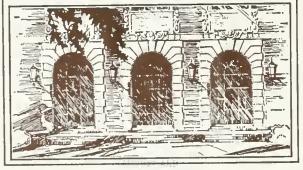


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INDUSTRIAL SUBURBANIZATION

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INDUSTRIAL SUBURBANIZATION

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INTRODUCTION

Although a variety of publications have apprised the recent suburbanization of industry in the United States, this centrifugal migration does not represent a fetal trend. In fact, as early as 1859 in Patterson, New Jersey, a mill was relocated from a congested site in the city's center to an "open" peripheral location. However, since the end of World War II the outward migration has become an easily recognizable trend and no American city has been spared this exodus. The spatial pattern of manufacturing increasingly reflects the more favorable industrial environment of peripheral zones. Outlying areas are attracting both new and relocatable industries because of a matrix of site advantages. These non-centroidal "attractors" include:
(1) industrial parks (districts), (2) suburbs, (3) small rural communities, and (4) Indian reservations.

CENTRIFUGAL FORCES

Centrifugal forces, or those parameters precipitating an outward movement from a common center, have been responsible for the industrial evacuation of most core areas. A direct relationship generally exists between city size and force quanta: as city size increases -- the number of operative centrifugal forces increases.

James Kenyon, "Manufacturing and Sprawl," in Metropolis on the Move: Geographers Look at Urban Sprawl. Edited by Jean Gottman and Robert A. Harper, New York, N.Y .: John Wiley & Sons, Inc., 1967, 103.

The term "district" was employed in the early stages of the industrial park movement. However, the term "park" has been popularized in recent years.



2

Individual force magnitude also intensifies with city growth. The following list incorporates primary centrifugal forces that are found in urban cores: high land costs, high rent, high tax rates, high-site preparation costs, high insurance rates, high transportation rates, traffic congestion, lack of space for expansion, scarcity of special sites, outmoded structures, nuisance complaints, legal restrictions, high crime rates, decaying amenities, and decaying services.

SITE SELECTION FACTORS

One of the most comprehensive lists of industrial location factors has been compiled by Conway Research, Incorporated. This "Checklist of Site Selection Factors" is composed of 24 major categories and these are subdivided into more than 800 ancillary factors. In reviewing the following list of site selection criteria it is apparent that most can be best satisfied in a locale other than a city's central zone. (1) markets, (2) basic materials, services, (3) labor, (4) transportation, (5) power and fuel, (6) telecommunications, (7) water and waste disposal, (8) local government, (9) taxes, (10) financing, (11) climate, (12) community facilities, (13) education, (14) cultural aspects, (15) recreational facilities, (16) churches, (17) medical, hospital facilities, (18) police, fire protection, (19) planning and zoning, (20) federal activities, (21) representation in Congress, (22) individual sites, (23) overseas factors, and (24) diversified investments.

SUBURBAN INDUSTRIAL PATTERNS

In analyzing suburban industrial patterns for any metropolitan area, it is usually quite apparent that most industiral
concerns are located beyond the limits of the central business
district. Some of these industries are isolated in suburbs and
have no comparable contiguous development. However, more are
clustered in this suburban setting. One method permitting
industries to congregate is the industrial park. Other industries
have been and continue to seek locations in communities which are
situated in sparcely populated regions. In reference to a rural
setting, a most recent movement has been to several Indian
reservations.

Industrial Parks

Although the first organized industrial park appeared in 1903, the heavy emphasis upon this form as a vehicle for industrial expansion has been primarily operative during the past two decades. The industrial park has been described by

Oonway Research, Incorporated, Site Selection Handbook.

Vol. II, Atlanta, Ga.: Conway Research, Inc. 1970, 207-211.

Libid.

Central Manufacturing District; Chicago, Illinois.



many urban planners and geographers as the industrial counterpart to the planned residential subdivision--offering the same advantages of uniformity, convenience, desirable address, considerate neighbors, "package services," and security against property value deterioration.

The concept of a planned park as an industrial subdivision is developed according to a comprehensive plan to provide serviced sites for manufacturing plants, distribution warehouses, and other establishments approved by the developers and/or tenants. The park provides for adequate control of the tract and buildings which is possible through restrictive covenants or zoning with a view to maintaining esthetic qualities within a park. In short, a park offers industry favorable parameters that are often unattainable in other suburban environs.

The number of industrial parks has increased rapidly in the past few years. Many communities from the smallest borough to the nation's largest urban centers have recognized the value of industrial parks. As of 1970 there were approximately 2,400 industrial parks in the United States. This figure surpassed the 1968 total by more than 300 and is double that reported in 1966. Current trends indicate that this growth profile will continue.

Small Communities

The small community as a general rule wants to attract industry. Many such communities virtually "sell their souls" to get a manufacturing concern through incentives such as free sites, free rent for a number of years, or tax-free facilities. These amenities are especially attractive to a small industrial unit. The small community sees in industry a means for strengthening or revitalizing an economy through increases in the tax base and job opportunities. The latter subsequently initiates growth in the non-basic sector.

Traveling throughout this country one has to be amazed at the number of small communities which have at least one industry. This pattern is especially evident in the southeastern states where many firms have relocated from the manufacturing belt. The spatial pattern for a considerable number of these "towns" is identical to that for large cities—industries skirt core areas and it is not uncommon to find a structure occupying a totally rural site.

Indian Reservations

The Indian reservation has become the most recent vehicle for industrial decentralization. Although this movement is just beginning on a small scale, it is at least becoming important to

⁶Linda Liston, "Proliferating Industrial Parks Spark Plant Location Revolution," <u>Industrial Development</u>, CXXXIX (March/April, 1970), 7.

⁸ Data from the Arizona Republic, 29 September 1969, 16.



one state's economy--Arizona, and it would appear that this trend may spread to other states. Two site selection factors seem to be paramount for Arizona's reservations: (1) lack of property taxes and (2) a large labor pool. Presently, there are seven reservation-industrial parks in the state, the largest occupying 733 acres. In addition to industrial parks, single sites have also been developed.

To attract industry, a tribe forms a non-profit development corporation which selects a site. The tribe in question provides funds for park development, including building erection costs and then leases structures at a rate reflecting a reservation's no-tax status. A firm occupying a site agrees to hire and train as many Indians as possible per industry need. For those that are trained, the Bureau of Indian Affairs provides part of a trainee's wages.

BIBLIOGRAPHIC OVERVIEW

This bibliographic montage has been assembled because of the voluminous proportions industrial suburbanization has assumed in recent years. An attempt has been made to incorporate a spectrum of entries which hopefully will serve the needs of many users. The authors would appreciate notification of omissions, errata, or how future compilations can be improved.

STATISTICAL SOURCES

- Annual Survey of Manufactures. U.S. Department of Commerce,
 Bureau of the Census, Washington, D.C.: U.S. Government
 Printing Office, Annual.
- Census of Population, Volume I, Individual State Reports. U.S.

 Department of Commerce, Bureau of the Census, Washington,
 D.C.: U.S. Government Printing Office, Decennial.
- Census of Manufactures, Volume III, Area Statistics. U.S. Department of Commerce, Bureau of the Census, Washington, D.C.: U.S. Government Printing Office, Quinquennial.
- County and City Data Book: A Statistical Abstract Supplement.

 U.S. Department of Commerce, Bureau of the Census,
 Washington, D.C.: U.S. Government Printing Office,
 April 1967.
- County Business Patterns. U.S. Department of Commerce, Bureau of the Census, Washington, D.C.: U.S. Government Printing Office, Annual.
- Dodge Reports. Chicago, Ill.: F.W. Dodge Co., Daily.
- Dun's Market Identifiers. Market Information Service, New York, N.Y.: Dunn and Bradstreet, Inc.

⁹This problem is currently being investigated on a national scale by Berlin and findings should be published in 1972.



- Employment and Earnings Statistics for States and Areas, 1939-1965.

 U.S. Department of Labor, Bureau of Labor Statistics

 Washington, D.C.: U.S. Government Printing Office, 1966,

 Single Issue.
- Industrial Development During ---. Chicago, Ill.: Commonwealth Edison Co., Annual.
- Industrial Development and Manufactures Record. Industrial Development Research Council, Atlanta, Ga.: Conway Research, Inc., Annual.
- Industrial Statistics: Guide and Finder Catalog. U. S. Department of Commerce, Bureau of the Census, Washington, D.C.: U.S. Government Printing Office, Special Report, Revised Occasionally.
- Monthly Labor Review. U.S. Department of Labor, Bureau of Labor Statistics, Washington, D.C.: U.S. Government Printing Office, Monthly.
- Site Selection Handbook. 2 Vols., Atlanta, Ga.: Conway Research, Inc., Annual.
- Standard Industrial Classification Manual. U.S. Department of Commerce, Bureau of the Budget, Washington, D.C.: U.S. Government Printing Office, Decennial.
- The Urban Information System. Detroit, Mich.: R.L. Polk and Co.,
 Annual.

GENERAL SOURCES

- Abbott, William P. "Trends in Industrial Land Use Within the Northeast Atlantic Coast States," Unpublished Master's thesis, Norman: University of Oklahoma, 1965.
- Abrams, Charles. "The Uses of Land in Cities," Scientific American, CCXIII (September, 1965), 151-160.
- Adams, John Stephen. "Urbanization Processes, Urban Economic Systems, and the Allocation of Urban Land for Industry," Unpublished Ph.D. dissertation, Minneapolis: University of Minnesota, 1966.
- Alderfer, E.B. and Michl, H.E. Economics of American Industry. 3rd ed., New York, N.Y.: McGraw-Hill Book Co., 1957.
- Alexander, John W. Economic Geography. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1963.
- Alexanderson, Gunnar. The Industrial Structure of American Cities. Lincoln: University of Nebraska Press, 1956.



- . Geography of Manufacturing. Englewood Cliffs, N.J.:
 Prentice-Hall, Inc., 1967.
- Alonse, William. Location and Land Use; Toward a General Theory of Rent. Cambridge, Nass.: Harvard University Press, 1964.
- Andrews, Richard B. Urban Growth and Development, A Problem Approach. New York, N.Y.: Simmons-Boardman Pub. Corp., 1962.
- Angus, John F. "Migration to the Periphery of a Metropolis: Union Township, Clermont County, Ohio, as a Case Study," Unpublished Master's thesis, Cincinnati, Ohio: University of Cincinnati, 1968.
- Anonymous. "Wooing White Collars to Suburbia," Business Week, (July 8, 1967), 96-98.
- . "Untapped Labor Supply: Industry Turning to Tax-Free Reservations," Phoenix Gazette, (September 29, 1969), 16.
- "The Flight from the Cities," Newsweek, (November 30, 1970), 58, 61.
- Appleton, John B. The Iron and Steel Industry of the Calumet District. Studies in the Social Sciences, Urbana: University of Illinois, 1927.
- Atlanta Chamber of Commerce. Atlanta: Industrial Districts.
 Atlanta, Ga.: Atlanta Chamber of Commerce, 1965.
- Bailey, Louise Dow. "Problems with Branch Plants in the Rural South," Unpublished Master's thesis, Chapel Hill: University of North Carolina, 1970.
- Barksdale, Thomas N., Jr. "Creating Flood Free Industrial Sites in Memphis, Tennessee," Unpublished Master's thesis, Norman: University of Oklahoma, 1966.
- Barlett, David Eugene. "The Local Development Corporation: A Factor Influencing Industrial Locations," Unpublished Master's thesis, Chapel Hill: University of North Carolina, 1970.
- Beimfohr, Oliver W. "The Industrial Potential of Southern Illinois," Unpublished Ph.D. dissertation, Columbus: Ohio State University, 1952.
- Bell, Gwendolyn Kay. "Factors in the Selection and Development of Organized Industrial Sites in Massachusetts," Unpublished Ph.D. dissertation, Worcester, Mass.: Clark University, 1967.



- Bennett, George R. "Industrial Air Park: Methods of Development,"
 Unpublished Master's thesis, Norman: University of
 Oklahoma, 1965.
- Berry, Brian J.L. and Horton, Frank B. Geographic Perspectives on Urban Systems, With Integrated Readings. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1970.
- Black, Harold. "Detroit: A Case Study in Industrial Problems of a Central City," Land Economics, XXXIV (1958), 219-226.
- Blumenfeld, Hans. "The Modern Metropolis," Scientific American, CCXII (September, 1965), 64-74.
- Boley, Robert E. Industrial Districts Restudied, An Analysis of Characteristics. Technical Bulletin #41, Washington, D.C.: Urban Land Institute, 1961.
- Technical Report #144, Washington, D.C.: Urban Land Institute, 1962.
- Urban Land, XVI (June 19, 1967), 3-11.
- Bowden, Martyn. "The Dynamics of City Growth: An Historical Geography of the Growth of San Francisco Central Business District, 1830-1931," Unpublished Ph.D. dissertation, Berkeley: University of California, 1967.
- Bredo, William. Industrial Estates: Tool for Industrialization. Chicago, Illinois: Free Press of Glencoe, 1960.
- Breese, Gerald. Industrial Site Selection: Burlington County, N.J.:
 Bureau of Urban Research, Princeton, N.J.: Princeton
 University, 1954.
- Brown, Laurence A. Diffusion Processes and Location: A Conceptual Framework and Bibliography. Philadelphia, Pa.: Regional Research Institute, 1968.
- Burrill, Meredith F. "Studies in the Industrial Geography of Montreal," Unpublished Ph.D. dissertation, Worcester, Mass.: Clark University, 1930.
- Burtt, E.J., Jr. "Workers Adapt to Plant Relocation in Suburbia," Monthly Labor Review, XCI (April, 1968), 1-5.
- Calef, Wesley C. and Daoust, Charles. What will New Industry Mean to My Town?, Office of Technical Services, Washington, D.C.:

 U.S. Department of Commerce, 1955.
- Carestio, Ralph M., Jr. "Land Absorption in Industrial Parks,"

 Industrial Development, CXL (January/February, 1971), 18-21.



- Carlson, Albert S. "The Hillsboro, New Hampshire Plant of the Semiconductor Products Division of Sylvania Electric Products, Inc.," in Focus on Geographic Activity, A Collection of Original Studies. Edited by Richard S. Thoman and Donald J. Patton, New York, N.Y.: McGraw-Hill Book Co., 1964, 167-171.
- Carrier, Ronald E. and Schriver, William R. "Location Theory:

 An Empirical Model and Selected Findings," Land Economics,

 XIV (April, 1968), 456.
- and . Plant Location Analysis: An Investigation of Plant Location in Tennessee. Memphis, Tenn.: Memphis State University, 1969.
- Catau, John. "An Analysis of the Land Use Pattern Along a Major Access Highway: A Case Study of U.S. Route 25 between Perrysburg and Cygnet, Ohio," Unpublished Master's thesis, Bowling Green, Ohio: Bowling Green State University, 1969.
- City Planning Commission of Cincinnati. Industrial Land Use:

 Present and Future. Cincinnati, Ohio: City Planning
 Commission of Cincinnati, 1946.
- Clark, Ted B. "A Geographical Analysis of Loudon, Tennessee,"
 Unpublished Master's thesis, Knoxville: University of
 Tennessee, 1968.
- Coffey, James B., Jr. "Converting a Military Base to Industrial Use," Unpublished Master's thesis, Norman: University of Oklahoma, 1965.
- Colby, Charles C. "Centrifugal and Centripetal Forces in Urban Geography," Annals of the Association of American Geographers, XXIII (March, 1933), 1-20.
- . "Centrifugal and Centripetal Forces in Urban Geography," in Readings in Urban Geography. Edited by Harold M. Mayer and Clyde F. Kohn, Chicago, Ill.: University of Chicago Press, 1959, 287-298.
- Collins, Lyndhurst. "Industrial Migration and Relocation: A Study of European Branch Plants with Special Reference to Metropolitan Toronto," Unpublished Master's thesis, Toronto: University of Toronto, 1966.
- Conway, M. McKinley and Stedman, Frank H. Area Developments:

 A Guide for Community Leaders. Atlanta, Ga.: Conway
 Publications, Inc., 1960.
- Conway Research, Incorporated. "Interstate Industrial Sites," Industrial Development, CXXXIV (April, 1965), 39-42.



- . "New Towns Sprouting Like Lapel Buttons at a Love-In," Industrial Development, CXXXIX (March/April, 1970), 2-6.
- . SSHB: Site Selection Handbook. Atlanta, Ga.: Comway Research, Inc., 1968.
- Cornell, William. "Situation and Site Factors in the Establishment of the Automobile Industry of Cleveland and Its Environs since 1945," Unpublished Master's thesis, Kent, Ohio: Kent State University, 1966.
- Creamer, Daniel B. Migration and Economic Opportunity. Edited by Carter Goodrich, Philadelphia: University of Pennsylvania Press, 1936, Chapter VII.
- Crooke, Jonas B. "The Labor Characteristics of Low-Wage Manufacturing Industries in East Tennessee: The Berkline Corporation," Unpublished Master's thesis, Knoxville: University of Tennessee, 1967.
- Cruttenden, Charles H. "Characteristics of Manufacturing Land Use in the Syracuse Area," Unpublished Ph.D. dissertation, Syracuse, N.Y.: Syracuse University, 1958.
- Cutshall, Alden D. "The Industrial Geography of the Lower Wabash Valley," Unpublished Ph.D. dissertation, Columbus: Ohio State University, 1940.
- Daniels, David D. "Location of Manufacturing Plants in the Lawrence, Kansas Area," Unpublished Master's thesis, Lawrence: University of Kansas, 1966.
- Darwin, Richard J. "The Growth and Change of Manufacturing Activity in the Buffalo Standard Metropolitan Statistical Area: 1958-1963," Unpublished Master's thesis, Buffalo: State University of New York, 1968.
- Dean, Robert D. Urbanization, Industrialization and the Development Process. Exchange Bibliography No. 178, Monticello, Ill.: Council of Planning Librarians, 1970.
- Denny, Evan. "Urban Impaction Rural Environments: A Case Study of San Juan County, Washington," Unpublished Ph.D. dissertation, Seattle: University of Washington, 1970.
- Dick, Donald F. "Problems Attributed to Industrial Parks, A Survey of Tenants," Unpublished Master's thesis, Norman: University of Oklahoma, 1968.
- Donahue, Mary P. "Distribution of Manufacturing Industries in Washington, D.C.," Unpublished Master's thesis, Washington, D.C.: Catholic University of America, 1969.



- Douglas, Paul. The A B C of Industrial Park Development.
 Practical Politics Center, Winter Park, Florida:
 Rollins College, 1961.
- . The Central Florida Industrial Park Story. Practical Politics Center, Winter Park, Fla.: Rollins College, 1963.
- Draine, Robert W. "The Most Successful Tracts Today Are Those that Offer Industry the Most Different Ways of Establishing an Industrial Plant," Industrial Development, CXXXIX (March/April, 1970), 14-16.
- Economic and Social Affairs Department. Establishment of Industrial Estates in Underdeveloped Countries. New York, New York: United Nations, 1961.
- The Physical Planning of Industrial Estates. New York, N.Y.: United Nations, 1962.
- . Industrial Estates: Policies, Plans and Progress:

 A Comparative Analysis of International Experience.

 New York, N.Y.: United Nations, 1966.
- Eperson, Terry E. "Geographic Factors Influencing the Manufactural Industries of Upper East Tennessee,"
 Unpublished Ph.D. dissertation, Knoxville: University of Tennessee, 1960.
- Estall, R.C. and Buchanan, R.L. <u>Industrial Activity and Economic Geography</u>. New York, N.Y.: Hutchinson and Co., Ltd., 1966.
- Fantus Company, Incorporated. Industrial Location Research
 Studies: Summary and Recommendations. Research Paper
 No. 4, New York, M.Y.: Fantus Co., Inc., 1966.
- Feczko, George. "Manufacturing in Dixon, Illinois," Unpublished Master's thesis, DeKalb: Northern Illinois University, 1964.
- Ferrell, David M. "Building for an Industrial Boom: Latin America Readies Prepared Sites," <u>Industrial Development</u>, CXXXV (June, 1966), 33-63.
- Fiser, Webb S. Mastery of the Metropolis. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1962.
- Fisher, Leigh. "Airport Industrial Parks: Who Should Develop Them?," <u>Urban Land</u>, XXV (February 19, 1966), 3-6.
- Fisher, Robert Moore (ed.). The Metropolis in Modern Life.
 New York, N.Y.: Doubleday & Co., 1955.



- Frank, Ralph W. "The Rubber Industry of the Akron-Baberton Area: A Study of the Factors Related to Its Development, Distribution and Localization," Evanston, Ill.: Northwestern University, 1952.
- Friedrick, C.H. Alfred Weber's Theory of the Location of Industries. Chicago, Ill.: University of Chicago Press, 1929.
- Fry, K.E. "Industry's Own Space Quest," Nation Business, LVII (September, 1969), 59-62.
- Fuchs, Victor R. Changes in the Location of Manufacturing in the United States since 1929. New Haven, Conn.: Yale University Press, 1962.
- Fulton, Maurice. "Plant Location: 1965," Harvard Business Review, XXXIII (March/April, 1955), 40-45.
- Gilbert, William W. "A Comparative Analysis of Land Use Patterns in the Cincinnati Metropolitan Area, 1950-1960: An Exploratory Examination of Expansion in a Major Metropolitan Area," Unpublished Master's thesis, Cincinnati, Ohio: University of Cincinnati, 1960.
- Gilmore, S.L. "Commercial and Industrial Land Utilization in the Bloomington-Normal (Illinois) Area," Unpublished Master's thesis, Normal: Illinois State University, 1963.
- Gilson, William R. "Industrial Relocation in Honolulu: Locational Factors in Decision Making," Unpublished Master's thesis, Honolulu: University of Hawaii, 1966.
- Glazer, Nathan. "The Renewal of Cities," Scientific American, CCXIII (September, 1965), 195-204.
- Goldberg, Michael. Intrametropolitan Industrial Location: Plant
 Size and the Theory of Production. Center for Real Estate
 and Urban Economics, Berkeley: University of California,
 1969.
- Goodwin, Fred W. "Industry as a Good Neighbor," Handbook on Industrial Development. Boston, Mass.: American Industrial Development Council, 1966.
- Goss, Lawrence E., Jr. "The Rise and Fall of Downtown Tacoma: Its Causes and Consequences," Unpublished Master's thesis, Seattle: University of Washington, 1969.
- Gottman, Jean. Megalopolis: The Urbanized Northeastern
 Seaboard of the United States. New York, N.Y.: The
 Twentieth Century Fund, 1961.



- and Harper, Robert A. (eds.). Metropolis on the Move:

 Geographers Look at Urban Sprawl. New York, N.Y.:

 John Wiley & Sons, Inc., 1967.
- Gould, Peter R. Spatial Diffusion. Washington, D.C.:
 Association of American Geographers, 1969.
- Gray, Irwin. "Employment Effects of a New Industry in a Rural Area," Monthly Labor Review, XCII (June, 1969), 26-30.
- Greenhut, Melvin L. Plant Location in Theory and in Practice.
 Chapel Hill: University of North Carolina, 1956.
- Groves, Paul A. "The Intrametropolitan Location of Manufacturing in the San Francisco Bay Area," Unpublished Ph.D. dissertation, Berkeley: University of California, 1969.
- Hanten, Edward. "A Method of Measuring Airport Influence and Determining Its Effect on Land Values and Land Use-Greater Pittsburgh as an Example," Unpublished Ph.D. dissertation, Pittsburgh, Pa.: University of Pittsburgh, 1962.
- Harned, Ellis. "A Geographical Study of Industry in the Philadelphia Metropolitan Area," Unpublished Master's thesis, University Park: The Pennsylvania State University, 1960,
- Harris, Chauncy D. "Suburbs," American Journal of Sociology, XLIX (July, 1943), 1-13.
- "Suburbs," in Readings in Urban Geography. Edited by Harold M. Mayer and Clyde F. Kohn, Chicago, Ill.: University of Chicago Press, 1959, 544-555.
- Hawley, Amos H. The Changing Shape of Metropolitan America. Glencoe, Ill.: The Free Press of Glencoe, 1956.
- Heiges, Harvey. "Intra-Urban Residential Movement in Seattle, 1962-7," Unpublished Master's thesis, Seattle: University of Washington, 1968.
- Heit, Howard F. "Lock Making: A Handicraft Industry in Aligarh, India," in Focus on Geographic Activity, A Collection of Original Studies. Edited by Richard S. Thoman and Donald J. Patton, New York, N.Y.: McGraw-Hill Book Co., 1964, 113-119.
- Hewitt, Robert A., Jr. "A Southeast U.S. Manufacturing Map," Unpublished Master's thesis, Syracuse, N.Y.: Syracuse University, 1968.
- Hoffman, Lawrence A. Economic Geography. New York, N.Y.: The Ronald Press Co., 1965.



- Honzatko, George J. "Macomb County: A Study of the Expansion of Urban Uses and the Absorption of Farmland," Unpublished Ph.D. dissertation, Ann Arbor: University of Michigan, 1957.
- Hoover, Edgar M. The Location of Economic Activity. New York, N.Y.: McGraw-Hill Book Co., 1948.
- . "Some Programmed Models of Industry Location," Land Economics, XLIII (August, 1967), 303-311.
- and Vernon, Raymond. Anatomy of a Metropolis.

 New York, N.Y.: Doubleday and Co., 1962.
- Hoyt, Homer. "Forces of Urban Centralization and Decentralization," American Journal of Sociology, XLVI (May, 1941), 843-852.
- Howell, Leland L. "Industrial Parks in Community Development,"

 University of Missouri Business and Government Review,

 IV (May/June, 1963), 25-32.
- Hunker, H.L. and Wright, Alfred J. Factors of Industrial Location in Ohio. Bureau of Business Research, Columbus: The Ohio State University, 1963.
- Isenberg, S. "Industrial Location in the City of St. Laurent, Quebec," Unpublished Master's thesis, Montreal: McGill University, 1967.
- Institute for Urban Studies. <u>Industrial Land and Facilities</u>
 for Philadelphia. Philadelphia: <u>University of Pennsylvania</u>, 1956.
- Izzard, Alex. "The Factors Influencing the Agglomeration of the Electronics Industry in the San Fernando Valley," Unpublished Master's thesis, Los Angeles: University of California, 1961.
- James, Douglas. "The Distribution of Workers Employed at the Fairfax Kansas City Industrial Park," Unpublished Master's thesis, Lawrence: University of Kansas, 1968.
- Janelle, Donald G. "Surface Motions: A Key to Isolating Changes in Urban Land Use,' in Proceedings of the Association of American Geographers. Vol. III (1971), Washington, D.C.: Association of American Geographers, 86-90.
- John Kewell and Associates. Design Criteria for Industrial Parks.
 Los Angeles, Calif.: John Kewell and Associates, 1967.
- Johnson, James H. <u>Urban Geography</u>. New York, N.Y.: Pergamon Press, 1968.



- Jones, Emrys. Towns and Cities. New York, N.Y.: Oxford University Press, 1966.
- Jucius, Michael J. "Industrial Districts of the Chicago Region and Their Influence on Plant Location," Unpublished Master's thesis, Chicago, Ill.: University of Chicago, 1932.
- Karaska, Gerald J. and Bramhall, David F. (eds.). <u>Locational</u>
 Analysis for Manufacturing: A Selection of Readings.

 Cambridge, Mass.: The M.I.T. Press, 1969.
- Karl, Kenyon F. Industrial Parks and Districts: An Annotated Bibliography. AIDC Bibliography Series No. 1, Boston, Mass.: AIDC Publications, 1968.
- . Industrial Parks and Districts: An Annotated
 Bibliography. Exchange Bibliography No. 63, Monticello,
 Ill.: Council of Planning Librarians, 1968.
- Kenyon, James Byron. "Industrial Localization and Metropolitan Growth: The Patterson-Passaic District," Unpublished Ph.D. dissertation, Chicago, Ill.: University of Chicago, 1960.
- . "Manufacturing and Sprawl," in Metropolis on the Move: Geographers Look at Urban Sprawl. Edited by Jean Gottman and Robert A. Harper, New York, N.Y.: John Wiley & Sons, Inc., 1967, 102-121.
- Kitagawa, Evelyn M. and Bogue, Donald J. Suburbanization of Manufacturing Activity within Standard Metropolitan Areas. Studies in Population Distribution No. 9, Miami, Ohio: Scripps Foundation, 1955.
- Klein, Robert E. "Manufacturing in the Syracuse Area: A Second Generation Study," Unpublished Master's thesis, Syracuse, N.Y.: Syracuse University, 1968.
- Koepke, Robert L. "The Location of Branch Manufacturing Plants within Suburban Metropolitan Chicago, 1958 through 1962," Unpublished Ph.D. dissertation, Urbana: University of Illinois, 1966.
- Kovacik, Charles F. "The Industrial Parks of the Fox River Valley," Unpublished Master's thesis, DeKalb: Northern Illinois University, 1965.
- Krafsur, Howard G. "Chicago's Contex Industrial Park: A Success Story of Turning Corn Stalks into Industrial Plants," <u>Industrial Development</u>, CXXXIX (March/April, 1970), 16-17.



- Kunstmann, John William. "The Industrialization of Franklin Park, Illinois," Unpublished Ph.D. dissertation, Evanston, Ill.: Northwestern University, 1964.
- Lawrence, Jon W. "Land Use Development in the DeKalb-Sycamore Corridor: A Study in Land Utilization and Commercial Activity," Unpublished Master's thesis, DeKalb: Northern Illinois University, 1970.
- Lea, Donald Williem. "Industrialization in the Omaha Standard Metropolitan Statistical Area," Unpublished Master's thesis, Omaha: University of Nebraska, 1968.
- Leak, R.E. "Rural Plant Sites are Marketable and Profitable,"
 Nation Business, LVII (September, 1969), 64-66.
- Leister, Ingeborg. Wachstum und Erneuerung britischer Industriegroßstadte. Wein: Herman Bohlhaus Nachf, 1970.
- Liddle, David B. "The Intermetropolitan Location of Manufacturing and the Industrial Land Use Market: A Case Study of the Toronto Region," Unpublished Master's thesis, Toronto: University of Toronto, 1968.
- Lindow, Howard E. "Fishing for an Industrial Plant," <u>Industrial</u> <u>Development</u>, CXXXIX (January/February, 1970), 21.
- Lineback, Neal Gambill. "Industrialization of a Rural Appalachian County: Alleghany County, North Carolina," Unpublished Master's thesis, Knoxville: University of Tennessee, 1967.
- . "Over-Industrialization as a Limitation to Economic Development in Rural Appalachian Counties," Southeastern Geographer, VIII (1968), 1-10.
- . "The Developing Spatial Patterns of Low Wage Manu-facturing: A Case Study in East Tennessee," Unpublished Ph.D. dissertation, Knoxville: University of Tennessee, 1970.
- Linge, G.I.R. "The Diffusion of Manufacturing in Auckland, Wew Zealand," Economic Geography, XXXIX (1963), 23-39.
- Liston, Linda. "Proliferating Industrial Parks Spark Plant Location Revolution," <u>Industrial Development</u>, CXXXIX (March/April, 1970), 7-11.
- Logan, N.I. "Capital City Manufacturing in Australia," Economic Geography, XXXII (1966), 139-151.



- Lonsdale, Richard E. "Barriers to Rural Industrialization in the South," in Proceedings of the Association of American Geographers. Vol. I (1969), Washington, D.C.:

 Association of American Geographers, 85-86.
- Lower Mainland Regional Planning Board of British Columbia.

 Economic Aspects of Urban Sprawl. New Westminster,

 B.C.: Lower Mainland Regional Planning Board of
 British Columbia, 1956.
- Lush, Charles B. "The Location of Manufacturing Establishments in the Kansas City Metropolitan Area," Unpublished Naster's thesis, Norman: University of Oklahoma, 1967.
- Lynch, Kevin. "The City as Environment," Scientific American. CCXII (September, 1965), 209-219.
- MacFarlane, Sidney K. "Manufacturing in the Utica Area," Unpublished Ph.D. dissertation, Syracuse, N.Y.: Syracuse University, 1960.
- Malinowski, Zenon S. The Place of Small Business in Planned Industrial Districts. Urban Research Institute, Storrs: University of Connecticut, 1963.
- Masse, B.L. "Factory Sites in Rural Areas," America, CXIII (October 16, 1965), 440.
- Mayer, Harold N. "Contex Industrial Park: An Organized Industrial District," in Focus on Geographic Activity:

 A Collection of Original Studies. Edited by Richard S. Thoman and Donald J. Patton, New York, N.Y.: McGrav-Hill Book Co., 1964, 135-145.
- Paper No. 7, Washington, D.C.: Association of American Geographers, 1970.
- and Kohn, Clyde F. (eds.). Readings in Urban Geography. Chicago, Ill.: University of Chicago Press, 1959.
- and Wade, Richard C. Chicago: Growth of a Metropolis.
 Chicago, Ill.: University of Chicago Press, 1969.
- McArton, A.W. "Impact of Railway Expansion on Economic Growth of the Sudbury, Ontario, Area," Unpublished Master's thesis, Norman: University of Oklahoma, 1966.
- McLaughlin, Glenn and Robuch, Stefan. Why Industry Meves South.
 Kingsport, Tenn.: National Planning Association, 1949.



- McLeod, Donald E. "The Distribution of Manufacturing Industry, Philadelphia, 1940 and 1954," Unpublished Master's thesis, Philadelphia: University of Pennsylvania, 1960.
- McMillion, Ovid M. "Plant Location Factors and Industrial Land Requirements in the Baltimore Industrial Area," Unpublished Ph.D. dissertation, College Park: University of Maryland, 1961.
- McNary, David C. "Industrial Parks: If They're Well-Planned They're Profitable," <u>Industrial Development</u>, CXXXIX (March/April, 1970), 12-13.
- Melancon, Archie P. "The Location of Manufacturing Establishments in Oklahoma City," Unpublished Master's thesis,
 Norman: University of Oklahoma, 1965.
- Miller, E. Willard. A Geography of Manufacturing. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1962.
- . A Geography of Industrial Location. Dubuque, Iowa: Um. C. Brown Co. Publishers, 1970.
- Minneapolis Planning Commission. Land for Industrial Growth.
 Publication No. 116, Industrial Study Series No. 3,
 Minneapolis, Minn.: Minneapolis Planning Commission, 1960.
- . Industry Square in Downtown Minneapolis. Publication No. 135, Minneapolis, Minne. Minneapolis Planning Commission, Winter 1961-62.
- Model, F.P. "Industrial Parks: Golden or Ghetto--or Both?,"
 The New Englander, (September, 1964), 12.
- Mookherjee, Debnath. "The Urban Fringe of Orlando, Florida:
 A Study of Land Use Patterns and Change Associated
 with Urban Growth," Unpublished Ph.D. dissertation,
 Gainesville: University of Florida, 1961.
- Moore, James M. Plant Layout and Design. New York, N.Y.: The MacMillan Co., 1962, 33-65.
- Moses, Leon. "A General Equilibrium Model of Production, Interregional Trade and Location of Industry,"

 Review of Economics and Statistics, XLII (November, 1960), 373-397.
- Mountjoy, Alan B. Industrialization and Under-Developed Chicago, Ill.: Aldine Pub. Co., 1967.
- Muncy, Dorothy A. "Land for Industry-A Neglected Problem,"

 <u>Harvard Business Review</u>, XXXII (Narch/April, 1954), 51-63.



- . "Land for Industry-A Neglected Problem," in

 Readings in Urban Geography. Edited by Harold N. Mayer
 and Clyde F. Kohn, Chicago, Ill.: University of
 Chicago, 1959, 464-477.
- Murphy, Guy W. "Organizing and Managing an Industrial Park,"

 Journal of Property Management, XXIX (March/April, 1964)

 198-203.
- Murphy, Raymond E. "The Industrial Sites Inventory: An Example of Applied Geography," in Festskrift till Olof Jonasson. Gotenborg, Sweden: Gotenburg School of Economics Puplications, 1959, 125-133.
- . The American City, An Urban Geography. New York, N.Y.: McGraw-Hill Book Co., 1966.
- Murphy, Richard T., Jr. and Baldwin, William Lee. "The Industrial Park," in Handbook on Industrial Development.

 Boston, Mass.: American Industrial Development Council, 1960, Chapter G.
- Murphy, W.B. "The Rural-Urban Balance," Vital Speeches, XXXII (November 1, 1965), 53-57.
- . "Small Town U.S.A.," Industrial Development,
 XXXXV (May, 1966), 5-10.
- Myers, Jill O. "The Suburbanization of Anderson Township, Hamilton County, Ohio," Unpublished Master's thesis, Miami, Ohio: Miami University, 1970.
- National Industrial Zoning Committee. Planning for Industrial Parks. Columbus, Ohio: National Industrial Zoning Committee, 1967.
- Newman, Dorothy K. "The Decentralization of Jobs," Monthly Labor Review, KC (Nay, 1967), 7-13.
- Northam, Ray II. Commercial Study: Swan Island Industrial Park, Portland, Oregon: Portland, Oregon: Columbian Research Institute, 1964.
- Okunrotifa, P.O. "Manufacturing Industries in Lagos, Nigeria," The Professional Geographer, XXII (March, 1970), 62-66.
- Pfister, Herb. "Is There an Industrial Park in Your Future?," American Builder, (January, 1967), 81-85.
- Pred, Allan. "The Intrametropolitan Location of American Manufacturing," Annals of the Association of American Geographers, LIV (1964), 165-180.



- Prestwich, Rodger. "The Manufacturing Industry of the Twin Cities-Changes in Locational Emphasis, 1946-1967,"
 Unpublished Master's thesis, Minneapolis: University of Minnesota, 1968.
- Price, Robert D., Jr. "An Analysis of the Inter-Urban Migration of Hanufacturing Establishments in Hamilton County: 1949-1967," Unpublished Master's thesis, Cincinnati, Ohio: University of Cincinnati, 1968.
- Ratcliff, Richard U. "Internal Arrangement of Land Uses," in Readings in Urban Geography. Edited by Harold M. Mayer and Clyde F. Kohn, Chicago, Ill.: University of Chicago Press, 1959, 410-417.
- . "The Dynamics of Efficiency in the Locational Distribution of Urban Activities," in The Metropolis in Modern Life. Edited by Robert Moore Fisher, New York, N.Y.: Doubleday & Co., 1955, 125-148.
- . "The Dynamics of Efficiency in the Locational Distribution of Urban Activities," in Readings in Urban Geography. Edited by Harold II. Mayer and Clyde F. Kohn, Chicago, Ill: University of Chicago Press, 1959, 299-324.
- Reeder, Leo G. "Industrial Location Trends in Chicago in Comparison to Population Growth," Land Economics, XXX (1954), 177-182.
- Reinemann, Martin W. "Relocalization and Relocation of Manufacturing within the Chicago Urban Area: An Analysis Based on a Randon Sample of 258 Industries at Fixed Intervals along the Transverse from the Loop to the Northwestern Suburban Fringe," Unpublished Ph.D. dissertation, Evanston, Ill: Northwestern University, 1955.
- Reinemann, M.W. "The Pattern and Distribution of Manufacturing in the Chicago Area," Economic Geography, XXXVI (1960), 139-144.
- Rodwin, Lloyd. "Ciudad Guayana: A New City," Scientific American, CCXIII (September, 1965), 122-132.
- Roterus, Victor. "Small Towns Offer Big Opportunities to Industry," <u>Industrial Development</u>, CXXXVI (July/August, 1967), 30-32.
- , Keys, Scott, and VanSchaack, Raymond. "Future Industrial Land Requirements in the Cincinnati Area,"

 Annals of the Association of American Geographers, XXXVI (1946), 111-121.



- Roth, Irvin J. "Population and Industry in Wheeling, Illinois, A Far-Out Suburb of Chicago," Unpublished Master's thesis, Chicago, Ill.: University of Chicago, 1964.
- Sargent, Charles. "Land for Industry," in Handbook on Industrial Development. Boston, Mass.: American Industrial Development Council, 1964, Chapter L.
- Scott, Mel. American City Planning Since 1890. Berkeley and Los Angeles: University of California Press, 1969.
- Selwood, H.S. "Labourshed of Pointe Claire Industrial Park,"
 Unpublished Master's thesis, Montreal: McGill
 University, 1968.
- Sidenbladh, Goran. "Stockholm: A Planned City," Scientific American, CCXIII (September, 1965), 107-118.
- Skinner, D.J. <u>Industrial Markets for Oakland County Firms</u>.

 Oakland County Michigan: Oakland County Planning

 Commission, 1963.
- Smailes, Arthur E. The Geography of Towns. Chicago, Ill.: Aldine Pub. Co., 1966.
- Smith, Robert H.T., Taaffe, Edward J., and King, Leslie J.

 Readings in Economic Geography-The Location of Economic

 Activity. Chicago, Ill.: Rand McNally & Co., 1968.
- Smith, Thomas R. "Locational Analysis of New Manufacturing Plants in the United States," Tijdschrift voor Econ. en Sociale Geografie, XLV (January, 1954), 46-50.
- Society of Industrial Realtors. Evaluation of Services and
 Features Offered by Industrial Parks. Washington, D.C.:
 Society of Industrial Realtors, 1968.
- Solzman, David Meyer. "Waterway Industrial Sites: A Chicago Case Study," Unpublished Ph.D. dissertation, Chicago, Ill.: University of Chicago, 1966.
- Stuart, Alfred W. "The Suburbanization of Manufacturing in a Small Metropolitan Area: Roanoke, Virginia," Unpublished Ph.D. dissertation, Columbus: Ohio State University, 1966.
- Sund, Roger K. "Industrial Park Protective Covenants," AIDC Journal, II (January 19, 1967), 5-23.
- Sweet, David C. "An Industrial Development Screening Matrix," The Professional Geographer, XXII(May, 1970), 124-127.



- Thomas, P. "Rexdale: A Case Study in Suburban Industry," Unpublished Master's thesis, Waterloo, Ontario: University of Waterloo, 1969.
- Tillman, David A. "Plant Location in Rural Areas: Some Considerations," <u>Industrial Development</u>, CXL (March/April, 1971), 17-18.
- Tucker, Everett, Jr. "Developing a Planned Industrial District," AIDC Journal, II (October, 1967), 17-29.
- U.S. Federal Aviation Agency. Planning the Airport Industrial
 Park. Advisory Circular AC 150/5070-3, Washington,
 D.C.: U.S. Federal Aviation Agency, 1965.
- Urban Land Institute. The Community Builders Handbook. Washington, D.C.: Urban Land Institute, 1968.
- Vance, Mary. Planned Industrial Districts. Exchange Bibliography No. 17, Monticello, Ill.: Council of Planning Librarians, 1961.
- Vander Zanden, Thomas John. "Measurement of the Effect of Air Pollution from the North Albany Industrial Complex on Nearby Agricultural and Residential Land Values," Unpublished Master's thesis, Corvallis: Oregon State University, 1970.
- Wade, Richard C. "The City in History-Some American Perspectives," in <u>Urban Life</u> and Form. Edited by Werner Z. Hirsch, New York, N.Y.: Holt, Rinehart & Winston, 1963, 59-75.
- Wehrwein, George S. "The Rural-Urban Fringe," Economic Geography, XVIII (July, 1942), 217-228
- . "The Rural-Urban Fringe," in Readings in Urban Geography. Edited by Harold M. Mayer and Clyde F. Kohn, Chicago, Ill.: University of Chicago Press, 1959, 533-543.
- Whiteside, R.J. "Desirable Location: Factories Wanted," America, CXIV (February 19, 1966), 261.
- Whitlatch, George I. Design, Plan and Management Organization for the Development of the Rose City Industrial District, Thomasville, Georgia. Industrial Development Division, Atlanta: Georgia Institute of Technology, 1961.
- Williams, James A. "An Analysis of Recent Industrial Expansion in the Upper Mill Creek Valley: A Study Investigating the Significance of Factors Influencing Industrial Location," Unpublished Master's thesis, Cincinnati, Ohio: University of Cincinnati, 1964.



- Wingo, Lowdon, Jr. (ed.). Cities and Space; The Future of Urban Land. Baltimore, Md.: Johns Hopkins University Press, 1963.
- Winid, B. "Problems of Towns: Patterns in Developing Countries," The Professional Geographer, XIX (January, 1967), 15-16.
- Woodbury, Coleman (ed.). The Future of Cities and Urban Redevelopment. Chicago, Ill.: University of Chicago Press, 1953.
- Winton, John M. "Plant Sites," Chemical Week, CVII (August 19, 1970), 51-76.
- Wrigley, Robert L., Jr. "Organized Industrial Districts,"

 Journal of Land and Public Utility Economics,

 XXIII (May, 1947), 180-198.
- . "Organized Industrial Districts," in Readings in Urban Geography. Edited by Harold M. Mayer and Clyde F. Kohn, Chicago, Ill.: University of Chicago Press, 1959, 478-495.
- Wurtile, George R. "Basic Criteria for Railroad Developed Industrial Districts," Unpublished Master's thesis, Norman: University of Oklahoma, 1964.
- Yaseen, Leonard C. Plant Location. New York, N.Y.: Business Reports, Inc., 1952.
- zierer, Paul. "Sanger, California: A Study of Industry in a Small Town," Unpublished Master's thesis, Los Angeles: University of California, 1966.
- Zimmer, Dietrich. The Current Manufacturing Industries of Metropolitan Lexington. Kentucky Series No. 2, Lexington: University of Kentucky, 1965.

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